MINOR ASSIGNMENT

Object-Oriented Programming with C++

(CSE 3943)

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Minor Assignment

1. Write a class to represent a vector (a series of float values). Include member functions to perform the following tasks:

   (a) To create a vector

   (b) To modify the value of a given element

   (c) To multiply by a scalar value

   (d) To display the vector in the form (10, 20, 30, ...)

   Write a program to test your class.

2. Modify the class and the program of Q. no. 1 such that the program would be able to add two vectors and display the resultant vector. (Note that we can pass objects as function arguments).

3. Write a self-sufficient class called 'Number' which maintains an int. It should have following methods in it to perform various operation on the int:

   void setNumber (int n) ; *//sets n into int*

   int getNumber( ) ; *//return current value of int*

   void printNumber( ) ; *//prints the int*

   bool isNegative( ) ; *//checks whether int is negative*

   bool isDivisibleBy (int n) ; *//checks whether int is divisible by n*

   int absoluteValue( ) ; *//returns absolute value of int*